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APPLICATION NO.		F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/809,877		03/26/2004	Malford E. Cullum	NC 84,641	7806
•	22245	7590	10/25/2006		EXAMINER	
	NAVAL M ATTN: (CO		L RESEARCH	PORTNER, VIRGINIA ALLEN		
	503 ROBERT GRANT AVENUE				ART UNIT	PAPER NUMBER
	SILVER SPRING, MD 20910-7500				1645	

DATE MAILED: 10/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summers	10/809,877	CULLUM ET AL.					
Office Action Summary	Examiner	Art Unit					
·	Ginny Portner	1645					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 3/26/	1) Responsive to communication(s) filed on 3/26/04.						
2a) This action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the meritance.							
						closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	
Disposition of Claims							
 4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-27 are subject to restriction and/or example. 							
Application Papers							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
	,						
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Da						
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa						
S. Patent and Trademark Office							

DETAILED ACTION

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Claims 1-27 are pending.

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-15, drawn to a method of detecting a Bacillus anthracis protein in a competitive immunoassay format, classified in class 435, subclass 9.3.
 - II. Claims 16-27, drawn to method of detecting antibodies with a fluorochromelabeled reagent that directly binds to the antibody, classified in class 435, subclass7.1.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions Group I and Group II are directed to related to determining the presence of a protein with a competitive assay and determining the presence of an antibody with a fluorochrome labeled binding reagent, respectively. The related inventions are distinct if the (1) the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect; (2) the inventions do not overlap in scope, i.e., are mutually exclusive; and (3) the inventions as claimed are not obvious variants. See MPEP § 806.05(j). In the instant case, the inventions as claimed the method of Group II has a materially different design by only adding a single reagent to sample while the method of Group I adds two reagents to the sample which results in determining the presence or absence of different products in the sample, specifically the mode of operation in Group I is clearly competitive and the mode of operation is between a labeled reagent and the antibody in the sample, no competition between components is required as now claimed, therefore, the methods of each group function

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differently and effectively determine the presence of structurally different products in the sample, one product being a protein of Bacillus anthracis and the other being an antibody that binds to an antigen of the pathogen; (2) the inventions do not overlap in scope because each method determines the presence or absence of products that structurally, and functionally are distinct based upon differing amino acid structures and the binding specificities conferred to the products based upon these structures. Furthermore, the inventions as claimed do not encompass overlapping subject matter and there is nothing of record to show them to be obvious variants.

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1. This application contains claims directed to the following patentably distinct species:

2. Group I:

- Claims 1-15 detects protective antigen protein
- Claim 6 detects fragments of protective antigen protein
- Claims 1-15 detects lethal factor protein
- Claim 6 detects fragments of lethal factor protein
- Claims 1-15 detects edema factor protein
- Claim 6 detects fragments of edema factor protein
- Claim 6 detects any native or recombinant Bacillus anthracis protein
- Claim 6 detects any native or recombinant Bacillus anthracis protein fragment. The species are independent or distinct because each protein evidences a different amino acid structure/size, which results in a different biological/chemical function and a different biological/chemical effect, as well as reacts with a different antibody directed to the independent and distinct amino acid structure of the protein or protein fragment.

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1. Group II:

• Claims 16-27 detect antibodies directed to protective antigen protein

- Claims 16-27 detect antibodies directed to fragments of protective antigen protein
- Claims 16-27 detect antibodies directed to lethal factor protein
- Claim 16-27 detect antibodies directed to fragments of lethal factor protein
- Claims 16-27 detect antibodies directed to edema factor protein
- Claim 16-27 detect antibodies directed to fragments of edema factor protein

The species are independent or distinct because each protein evidences a different amino acid structure/size, which results in a different biological/chemical function and a different biological/chemical effect, as well as reacts with a different antibody directed to the independent and distinct amino acid structure of the protein or protein fragment.

2.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an

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allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37) CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ginny Portner whose telephone number is (571) 272-0862. The examiner can normally be reached on flextime, but usually M-F, alternate Fridays off.

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The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vgp October 19, 2006

> MARK NAVARRO PRIMARY EXAMINER